

SEQUENCE LISTING

<110> Szostak, Jack W.
 Roberts, Richard W.
 Liu, Rihe

<120> SELECTION OF PROTEINS USING RNA-PROTEIN
 FUSIONS

<130> 00786/350005

<140> 09/247,190

<141> 1999-02-09

<150> 60/035,963

<151> 1997-01-21

<150> 60/064,491

<151> 1997-11-06

<150> 09/007,005

<151> 1998-01-14

<160> 38

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 76

<212> RNA

<213> Artificial Sequence

<220>

<223> Translation template

<400> 1

gggaggacga aauggaacag aaacugaucu cugaagaaga ccugaacaaa aaaaaaaaaa
 aaaaaaaaaa aaaacc

60

76

<210> 2

<211> 10

<212> PRT

<213> Homo sapiens

<400> 2

Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu

1

5

10

<210> 3

<211> 153
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Translation template

<400> 3
 gggacaauua cuauuuacaa uuacaauggc ugaagaacag aaacugaucu cugaagaaga 60
 ccugcugcgu aaacgucgug aacagcugaa acacaaacug gaacagcugc guaacucuug 120
 cgcuaaaaaa aaaaaaaaaa aaaaaaaaaa acc 153

<210> 4
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Random peptide

<221> VARIANT
 <222> (1)...(27)
 <223> Xaa is any amino acid.

<221> VARIANT
 <222> (1)...(34)
 <223> Xaa = Any Amino Acid

<400> 4
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10 15
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Leu Arg Asn Ser
 20 25 30
 Cys Ala

<210> 5
 <211> 25
 <212> RNA
 <213> Tobacco Mosaic Virus

<400> 5
 gggacaauua cuauuuacaa uuaca 25

<210> 6
 <211> 10
 <212> RNA
 <213> Escherichia coli

<400> 6
 ggaggacgaa 10

<210> 7
<211> 34
<212> PRT
<213> Homo sapiens

<400> 7
Met Ala Glu Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Leu Arg Lys
1 5 10 15
Arg Arg Glu Gln Lys Leu Lys His Lys Leu Glu Gln Leu Arg Asn Ser
20 25 30
Cys Ala

<210> 8
<211> 29
<212> DNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 8
aaaaaaaaaa aaaaaaaaaa aaaaaaacc

29

<210> 9
<211> 12
<212> DNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 9
aaaaaaaaaa cc

12

<210> 10
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Translation template

<400> 10
cgcggttttt attttttttt ttcc

24

<210> 11
<211> 42
<212> RNA
<213> Artificial Sequence

<220>
 <223> Translation template

<400> 11
 ggaggacgaa augaaaaaaaa aaaaaaaaaa aaaaaaaaaa cc 42

<210> 12
 <211> 42
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Translation template

<400> 12
 ggaggacgaa cugaaaaaaaa aaaaaaaaaa aaaaaaaaaa cc 42

<210> 13
 <211> 42
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Translation template

<400> 13
 ggaggacgaa augaaaaaaaa aaaaaaaaaa aaaaaaaaaa cc 42

<210> 14
 <211> 36
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Translation template

<400> 14
 ggaggacgaa cugaaaaaaaa aaaaaaaaaa aaaacc 36

<210> 15
 <211> 33
 <212> RNA
 <213> Artificial Sequence

<220>
 <223> Translation template

<400> 15
 ggaggacgaa cugaaaaaaaa aaaaaaaaaa acc 33

<210> 16
 <211> 30
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Translation template

 <400> 16
 ggaggacgaa cugaaaaaaaa aaaaaaaacc 30

 <210> 17
 <211> 159
 <212> RNA
 <213> Artificial Sequence

 <220>
 <223> Translation template

 <221> misc_feature
 <222> (1)...(289)
 <223> n = A,T,C or G

 <400> 17
 gggacaauua cuauuuacaa uuacaaugnn snnnsnnsnns nnsnnsnnsn nsnnnsnnsnn 60
 snnnsnnsnns nnsnnsnnsn nsnnnsnnsnn snnnsnnsnns nnsnnsnnsnc agcugcguaa 120
 cucuugcgcu aaaaaaaaaa aaaaaaaaaa aaaaaaacc 159

 <210> 18
 <211> 64
 <212> DNA
 <213> Homo sapiens

 <400> 18
 gttcaggtct tcttgagaga tcagtttctg ttccatttcg tcctccctat agtgagtcgt 60
 atta 64

 <210> 19
 <211> 18
 <212> DNA
 <213> Homo sapiens

 <400> 19
 taatacgact cactatag 18

 <210> 20
 <211> 12
 <212> PRT
 <213> Homo sapiens

 <400> 20

Met Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Asn
 1 5 10

<210> 21
 <211> 99
 <212> DNA
 <213> Homo sapiens

<400> 21
 agcgcaagag ttacgcagct gttccagttt gtgtttcagc tggttcacgac gtttacgcag 60
 caggtcttct tcagagatca gtttctgttc ttcagccat 99

<210> 22
 <211> 21
 <212> DNA
 <213> Homo sapiens

<400> 22
 agcgcaagag ttacgcagct g 21

<210> 23
 <211> 63
 <212> DNA
 <213> Homo sapiens

<400> 23
 taatacgact cactataggg acaattacta tttacaatta caatggctga agaacagaaa 60
 ctg 63

<210> 24
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 24
 Met Ala Glu Glu Gln Lys Leu Ile Ser Glu Glu Asp Leu Leu Arg Lys
 1 5 10 15
 Arg Arg Glu Gln Leu Lys His Lys Leu Glu Gln Leu Arg Asn Ser Cys
 20 25 30
 Ala

<210> 25
 <211> 127
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Primers for RNA pool

<223> n = a, t, c, or g. s = g or c.

<400> 25	
ccctgttaat gataaatgtt aatgttacnn snnnsnnsnns nnsnnsnnsn nsnnnsnnsn	60
snnnsnnsnns nnsnnsnnsn nsnnnsnnsn snnnsnnsnns nnsnsgtcg acgcattgag	120
ataccga	127
<210> 26	
<211> 42	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primers for RNA pool	
<400> 26	
taatacgact cactataggg acaattacta ttacaatta ca	42
<210> 27	
<211> 21	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> Primers for RNA pool	
<400> 27	
agcgcaagag ttacgcagct g	21
<210> 28	
<211> 19	
<212> DNA	
<213> Artificial Sequence	
<220>	
<223> DNA splint	
<400> 28	
tttttttttt agcgcaaga	19
<210> 29	
<211> 18	
<212> DNA	
<213> Homo sapiens	
<400> 29	
gtggtatttg tgagccag	18
<210> 30	
<211> 40	
<212> DNA	
<213> Phage T7	

<400> 30
 taatacgact cactataggg acacttgctt ttgacacaac 40

<210> 31
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA splint

<400> 31
 tttttttttt gtggtatttg 20

<210> 32
 <211> 124
 <212> RNA
 <213> Homo sapiens

<400> 32
 gggacaauua cuauuuacaa uuacaauggc ugaagaacag aaacugaucu cugaagaaga 60
 ccugcugcgu aaacgucgug aacagcugaa acacaaacug gaacagcugc guaacucuug 120
 cgu 124

<210> 33
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA splint

<223> n = a, t, c, or g.

<400> 33
 tttttttttt naggcgaaga 20

<210> 34
 <211> 123
 <212> DNA
 <213> Homo sapiens

<220>
 <223> n = a, g, t, or c. s = c or g.

<400> 34
 agcttttggg gcttgtgcat csnnnsnnnsnn snnnsnnnsnn nnsnnnsnnns nsnnnsnnnsnn 60
 snnnsnnnsnn nnsnnnsnnns nsnnnsnnnsnn snnnsnnnsnn nnctcctcgc ccttgctcac 120
 cat 123

<210> 35

<211> 21
 <212> DNA
 <213> Homo sapiens

<400> 35
 agcttttggg gcttggtcat c 21

<210> 36
 <211> 63
 <212> DNA
 <213> Homo sapiens

<400> 36
 taatagcact cactataggg acaattacta ttacaatta caatgggtgag caagggcgag 60
 gag 63

<210> 37
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> DNA splint

<223> n = a, t, c, or g.

<400> 37
 tttttttttt nagcttttgg tgcttg 26

<210> 38
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Consensus my c epitope

<223> Xaa at 2 is Gln or Glu; Xaa at 10 is Leu or Met;
 Xaa in all other positions can be any amino acid.

<400> 38
 Xaa Xaa Xaa Leu Ile Ser Glu Xaa Xaa Xaa
 1 5 10